English

Table of Contents

Section 1: Quick Start Guide 1

1. Please read these instructions 2
2. Package contents 2
3. Select and prepare the installation location 3
4. Connect the antenna cable 4
5. Connect the power cable 4
6. Adjust viewing angle 5
7. Activate the remote control 5
8. Initialize your TV 7
9. View the TV programs 8

Care and cleaning information 8

What's next? 9

Section 2: User Manual 11

Introduction 12

Getting to know your TV 12
- Input options 12
- Analog TV source inputs 12
- Video source inputs 12
- Graphic source inputs 13

Front view 13

Control panel 14

External AV devices (temporary) terminal panel 15

Rear view 16

Getting to know the remote control 18

Using the remote control 21

Power on and standby 21
- Turning the TV on 21
- Putting the TV to standby 21

Switching inputs 21

Adjusting sound settings 21
- Adjusting volume 21
- Mute setting 21
- Selecting a TV sound mode 22
- Selecting a preset EQ mode 22

Changing programs 22
- Selecting a program directly 22
- Changing programs sequentially 22
- Returning to the previous viewed program or input 22

Using the freeze function 22

Selecting a picture mode 23

English

Using the PIP (Picture-In-Picture) function 23
Using the sleep timer 24
Adjusting backlight 24
Using the Teletext function 24
Displaying information 25
Adjusting aspect ratio 25

Connecting audio and video inputs 26
Connecting the SCART input 26
Connecting the SCART output 27
Connecting the Composite Video input 27
Connecting the S-Video input 28
Connecting the Component Video input 28
Connecting the PC input 29
Connecting the HDMI input 29
Connecting the DVI input 30
Connecting the stereo audio output 30

On-Screen Display (OSD) menu 31
OSD structure 31
Navigating the OSD menu 32
Audio menu 33
Setting up Personal EQ mode 34
Picture menu 35
Setting up Personal Picture mode 36
Feature menu 37
Window menu 38
TV menu 39
Performing manual installation 39
Editing programs 40
Child Lock 41
Setup menu 43

Reference 44
Disclaimer 44
Copyright 44
Battery safety notice 44
Important safety instructions 44
Dimensional drawings 47
Specifications 49
Supported PC (D-Sub/DVI) input signal resolution 50
Supported Component Video/HDMI input signal resolution 50
Troubleshooting 51

English

BenQ

VL3733/VL4233

LCD TV

Section 1: Quick Start Guide

Welcome

English

1. Please read these instructions

Congratulations. You have a state-of-the-art flat widescreen digital LCD TV which should provide you with years of viewing pleasure. Please take a few minutes to read these quick start instructions through before installing and using the TV.

What's in the Quick Start Guide?

Section 1 contains the Quick Start Guide which provides you with enough information to setup the TV and start viewing TV station broadcasts as quickly as possible. This is section 1.

What's in the User Manual?

Section 2 contains the User Manual which details the features and functions of the TV and the remote control, describes how to connect to other devices, and provides product specifications and troubleshooting information for your further assistance. The User Manual also describes how to customise the TV settings so that you can gain the best viewing experience possible to suit your preferences and viewing environment.

2. Package contents

Unpack the TV and check that all the following items are included:

TV (x1)

Power cable (x3)

Composite Video cable (x1)

Remote control (x1)

Quick Start Guide and User Manual (x1)

Service Information (x1)

AAA battery (x2)

☞ **If any item is missing or damaged, contact your place of purchase immediately and notify them of the discrepancy. Please keep the product documentation in a safe place for later reference.**

☞ **Dispose of packaging wisely:**

- **The cardboard carton can be recycled.**
- **Do not leave plastic bags within reach of young children or babies.**
- **Consider storing the packaging (if possible) for future transport of the TV.**
- **Check that you haven't left an accessory inside the packaging, before discarding.**

☞ **For the primary safety of yourself and others, this TV should be handled with care to avoid damage to it or to persons which come into contact with it.**

All LCD screens have a very thin protective layer of glass which is liable to marking or scratching, and cracking if struck or pressured. The liquid crystal substrate is also liable to damage under excessive force or extreme temperatures. Please handle with care.

3. Select and prepare the installation location

In order to prevent potential dangers and prolong the service life of the TV, please observe the following points when installing, operating and cleaning the TV.

Do NOT place the TV on an uneven, sloping or unstable surface where it may fall and cause damage to itself or others.

Do NOT place the TV near water, like a spa or pool, or in a position which will allow the splashing or spraying of water onto the TV, like in front of an open window where rain water may enter.

Do NOT place the TV near or above sources of heat, such as radiators, heaters, fuel stoves and other heat-generating items (including audio amplifiers).

Do NOT place the TV in direct sun or where direct sun or spot lighting will shine onto the TV, as the heat may damage the TV and the bright light will make viewing the TV more difficult than necessary.

If wall mounting, have a suitable qualified and experienced tradesperson mount it safely. Ensure that the mounting bracket (optional accessory) is securely screw fixed to the wall structure, and not just the wall render, lining or cladding. Do not glue the bracket to the wall. Use only a recommended TV wall bracket for this model TV. Ensure the bracket is level horizontally. TV dimensions are detailed in "Dimensional drawings" on page 34

If recessed into a wall opening, you must leave appropriate free space both top and bottom for ventilation.

If wall mounting, allow appropriate space on top for attaching the TV to the wall bracket.

Do NOT cover or block the vents and openings whilst the TV is switched on.

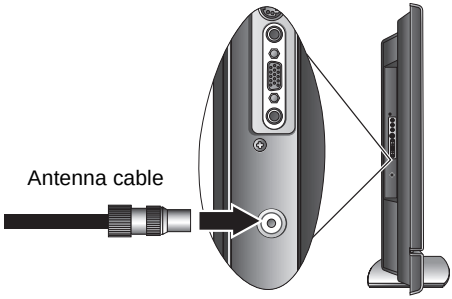
Do NOT place the TV in an enclosed place without allowing for ventilation.

Observe all warnings and cautions as labelled on the TV.

Once all considerations and precautions have been made, position the TV where most suitable.

4. Connect the antenna cable

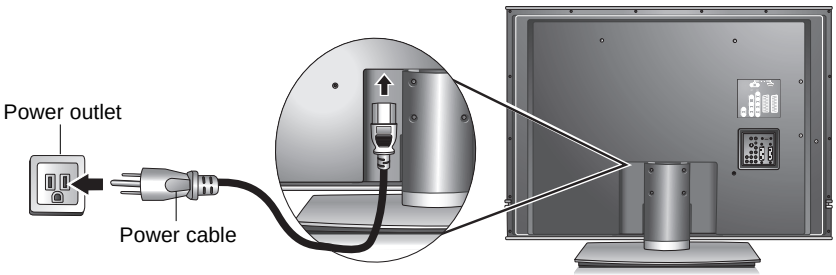
Connect a TV antenna cable fly-lead from your TV antenna system or Cable TV (CATV) to the **ATV** input on the TV. Check to make sure that the cable connection is firmly in place.



- **A poor quality TV signal will produce a poor picture and/or sound on your TV. For high quality picture and sound, you will need a high quality TV signal. Depending upon your location, for best TV signal reception, you should have a properly aligned outdoor TV antenna system. If need be, consult a professional antenna specialist.**
- **This TV has a built-in analog TV tuner, which requires the TV antenna cable connection to an external TV antenna system. If you wish to make use of the digital LCD screen to view digital TV, you should connect an external digital TV tuner (decoder) set top box (STB) to the TV using a digital signal cable (HDMI or DVI) connection. See "Getting to know your TV" on page 12.**

5. Connect the power cable

1. Locate the power cable suitable for your region from the packaging, unwrap it, and plug the appropriate end into the **AC INLET** socket on the rear of the TV (as illustrated below).
2. Connect the other end into an appropriate wall power outlet, and switch it on (if switched). The TV will enter standby mode and the power indicator (on the front lower right) will light up red.



- **The type of power cable plug and socket illustrated may differ from the type used in your region.**
- **Only use an appropriate power cable for your region. Never use a power cable which appears damaged or frayed. Never change the plug type on a power cable. Be aware of total loading when using extension cords or multiple outlet power boards.**

WARNING:

- **This TV has been engineered and manufactured with the highest priority on safety, however, IMPROPER HANDLING OR USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. Please handle this TV with care. If**

damaged, turn off the power and unplug the power cable from the TV. Transport the TV to your nearest BenQ authorised service centre for repair.

- **There are no user serviceable parts in this TV. Never unscrew or remove any covers. There are dangerous voltages inside. Turn off the power and unplug the power cable before moving the TV.**

6. Adjust viewing angle

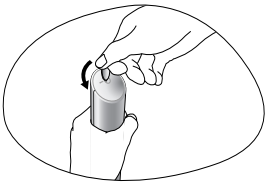
This TV is equipped with a swivable stand. If necessary, turn the TV screen to an appropriate angle for more comfortable viewing.

7. Activate the remote control

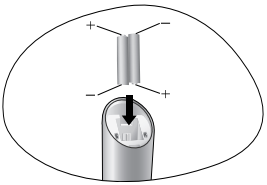
1. Locate the remote control and batteries from the packaging, and unwrap them.

☞ **Be cautious when handling batteries. See "Battery safety notice" on page 44.**

2. Turn the remote control end up to reveal its base, and open the lid of the battery compartment by using a small coin or similarly curved object to rotate the slot 90° anticlockwise. The lid is spring loaded and will popup and come loose from the remote control body.

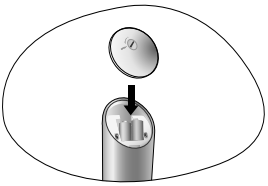


3. Insert the batteries (supplied) ensuring that the positive and negative marked battery terminals match the (+) and (-) marks in the battery compartment.

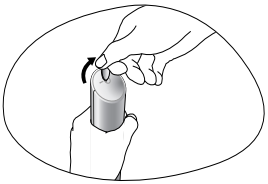


☞ **Note that these batteries are provided for your convenience so that you can operate the TV straight away. You should replace them as soon as possible.**

4. Refit the lid of the battery compartment by inserting the hinge into the recess at one edge and levering the lid down into position with the thumb of the hand holding the remote control body.

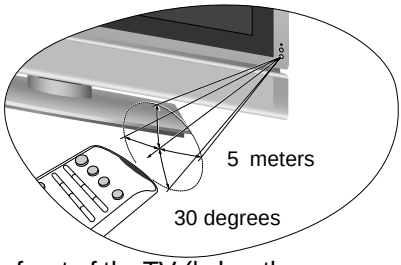


5. Whilst holding the lid in place in this manner, use your other hand and a small coin or similarly shaped object to rotate the locking slot 90° clockwise locking the lid in place.



Remote control usage tips

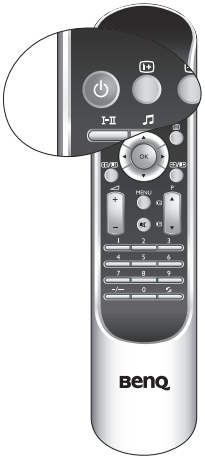
- Point and aim the top front of the remote control directly at the TV when pressing the buttons.
- The remote control must be held at an angle within 30 degrees of the TV's remote control sensor window to function correctly. The distance between the remote control and the sensors should not exceed 5 meters.



- Do not cover the sensor window on the front of the TV (below the power indicator lamp), or place objects in front of it which will block the direct line-of-sight between the remote control and the sensor window on TV.

☞ **• Do not let the remote control become wet, or place it in humid environments (like bathrooms.)**
• If the remote control sensor window on the TV is in direct sunlight or strong light, the remote control may not operate properly. In this situation, change the light source or readjust the angle of your TV, or operate the remote control from a location closer to the remote control sensor window on the TV.

Test the remote control



Press **Power/standby** ⏻ on the remote control (as highlighted in the illustration). The TV should turn on, and the power indicator change to green. If so, progress to the next step ("8. Initialize your TV" on page 7.

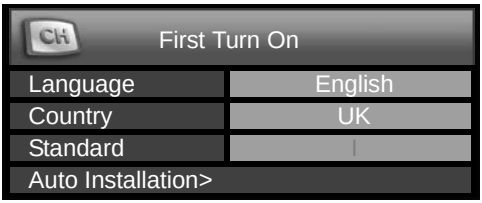
If the TV does not turn on, first check that the power is available (the power indicator will be lit red). If so, try pressing ⏻ **(Power/standby)** on the right side of the TV. If the TV turns on by this method, the problem lies with the remote control.

In that case, check that the remote control batteries are properly installed. If need be, replace the batteries with new ones or known good ones. See "Troubleshooting" on page 51 for further assistance.

To turn off the TV, press ⏻ **(Power/standby)** on the right side of the TV, or **Power/standby** ⏻ on the remote control again, and the TV will return to standby mode (the power indicator will turn red.)

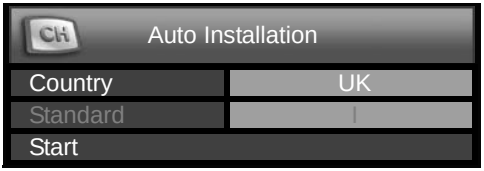
8. Initialize your TV

When first turned on (and until tuned), the **First Turn On** menu will display:



Before you can use your TV to view TV programs, you need to let it search for and tune TV station programs appropriate to your region. This process only needs to be done when the TV is newly installed, or whenever you install it in a new location. You also need to select your language for the on-screen display (OSD) menu for convenience of operation.

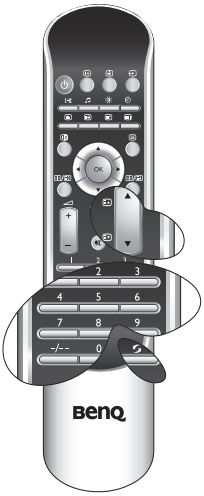
1. Press ▲ or ▼ on the remote control to select **Language**, and then press ◀ or ▶ to select your language.
2. When you select a **Language**, the **Country** and TV **Standard** items will change automatically to suit. If your country is not displayed in the **Country** item, you can press ▲ or ▼ to select it and then press ◀ or ▶ to select your country. If **Others** is selected as the **Country**, you will also need to select the TV broadcast standard suitable for your region.
3. Press ▲ or ▼ to select **Auto Installation** and then press **OK**. The following menu will display:



4. Press ▲ or ▼ to select **Start** and then press **OK**. The TV will start searching for available programs and tune and store them for you. This may take several minutes, depending on the available TV programs in your local reception area. Please allow the display to complete this tuning process.
5. When the tuning process is complete, the **TV** menu will display. Press **MENU** on the remote control to close it.

☞ **You can alter the settings in the future using the OSD menu. See "On-Screen Display (OSD) menu" on page 31 for more information.**

9. View the TV programs



Press **P (Program)** ▲ or **P (Program)** ▼ on the remote control (as highlighted in the illustration) or **(Program)** ▲ or **(Program)** ▼ on the TV to view the TV programs available in your area.

You can also change to a program directly by selecting the station number using the numeric program selection button(s) on the remote control:

- To select a single-digit program number, press the corresponding program selection button. For example, to select program 8, press 8.
- To select a two-digit program number, press **Program entry** -/--, followed by the corresponding program selection buttons. For example, to select program 28, press **Program entry** -/-- and then 2, 8.
- To return to the previous viewed program or input, press **Recall** (also highlighted in the illustration).

To alter the volume, press **+** or **-** on the remote control, or **(Volume)** ▲ or **(Volume)** ▼ on the TV. The volume indicator will display on-screen.

Please refer to the User Manual for further information about the TV and its operation.

Care and cleaning information

- Always turn off the TV before cleaning.
- Do NOT use cream, liquid, aerosol or spray cleaners. Use only a slightly damp well wrung-out (drip-free) and lint-free, clean soft cloth and lightly wipe the TV.
- If necessary, use a pH-neutral liquid dish-washing detergent diluted with water on a separate clean lint-free cloth to remove oil or grease marks. Wipe over again with a clean dry lint-free cloth to remove any smear marks.
- Under close examination and in certain circumstances, you may notice that a few non-active pixels appear on the screen as a fixed point of colour. Please note that this does not affect the performance of your product as it is usually not visible at normal viewing distances.
- If the TV is not going to be used for an extended period of time (like when you're going away for holidays), it should be switched off and unplugged from the wall outlet. You should also consider removing the batteries from the remote control (as they may leak).
- To help prevent possible 'LCD Image Persistence', you should ensure that static images are never displayed for extended periods of time (days) and that you turn off the screen for several hours every day or so.

What's next?

You have reached the end of Section 1: Quick Start Guide. By now, you should have a reasonable understanding of your new LCD TV and its controls, know how to install, connect, turn on, tune, change the programs, and how to care for and maintain it.

Should you wish to maximise your viewing experience pleasure, Section 2 of this booklet contains the User Manual which describes how to customise the TV settings to suit your preferences and viewing environment. It details the features and functions of the TV and the remote control, describes how to connect other devices, and provides product specifications and troubleshooting information for your further assistance.

☞ **This LCD TV is a high resolution display device. To achieve the best possible display results, it is recommended that you:**

• connect it to a digital video source

• select an appropriate aspect ratio

When viewing traditional (analog) TV, it is recommended that you set the aspect ratio to 4:3, Letter Box, or Cinema. See "Adjusting aspect ratio" on page 25.

<Memo>

English

BenQ

VL3733/VL4233

LCD TV

Section 2: User Manual

Welcome

Introduction

This booklet is divided into two sections: the Quick Start Guide; and the User Manual. For details of the Quick Start Guide, see "1. Please read these instructions" on page 2.

This is section 2, the User Manual which describes how to customise the display settings so that you can gain the best viewing experience possible to suit your preferences and viewing environment. This section details the features and functions of the TV and the remote control, describes how to connect to other devices, and provides product specifications and troubleshooting information for your further assistance.

Getting to know your TV

This LCD TV is a state-of-the-art flat widescreen digital display device. It has a built-in analog TV tuner which can be used to view standard definition analog television (TV or ATV), cable television (CATV), or radio frequency (RF) modulated video through its coaxial TV tuner input socket.

However, the high quality of a widescreen LCD TV isn't realized through analog TV. The highest possible quality display is only possible from high definition digital video sources like High Definition TV (HDTV) and High Definition DVD (HDVD).

Input options

This TV supports the simultaneous connection of several different types of TV, Video and Graphic sources, and permits you to select whichever one of the available sources you wish to view at any time. You can press **Input** ⊕ on the remote control or **INPUT** on the TV to select an input source.

There are multiple sockets on the TV for analog TV, Video, and Graphic inputs.

- Analog TV source input includes: 1 x Coaxial analog TV antenna.
- Video source inputs include: 2 x Composite Video, 2 x S-Video, 2 x SCART and 1 x Component Video (Y C_B/P_B C_R/P_R).
- Graphic source inputs include: 1 x HDMI/DVI and 1 x PC VGA (D-Sub).

You should connect whichever TV, Video or Graphic sources you wish to view on the TV. You need not connect more than one if that one is all you wish to view.

Analog TV source inputs

You can connect an external VHF or UHF TV antenna (if available) to the TV tuner input using an appropriate TV coaxial cable, and select the **ATV** input to view analog TV broadcasts. If you have cable TV, you can connect your cable TV decoder box to the TV tuner input using an appropriate TV coaxial cable, and select the **ATV** input to view cable TV. See "4. Connect the antenna cable" on page 4.

Video source inputs

You can connect an external analog video device (if available—VCR, VCD or DVD) to either of the Composite Video (AV), S-Video or SCART inputs, and select **AV4** or **AV5** (for Composite Video inputs), **AV4-S** or **AV5-S** (for S-Video inputs) or **AV1** or **AV2** (for SCART inputs) as the input source respectively to view analog video. See "Connecting the SCART input" on page 26,

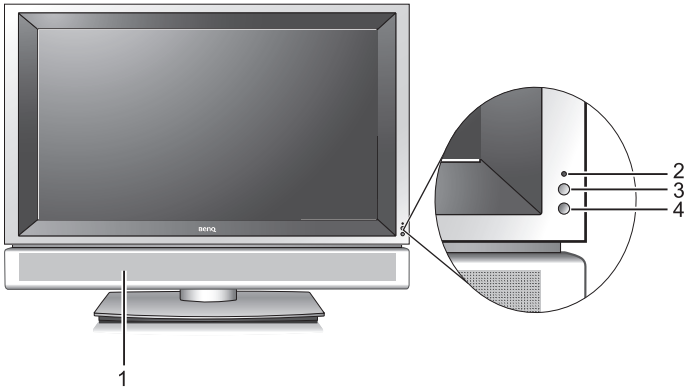
"Connecting the Composite Video input" on page 27 and "Connecting the S-Video input" on page 28.

If the video source device supports it, you could alternatively connect it using the Component Video input and select **AV3** as the input source for the best possible analog Video picture. See "Connecting the Component Video input" on page 28.

Graphic source inputs

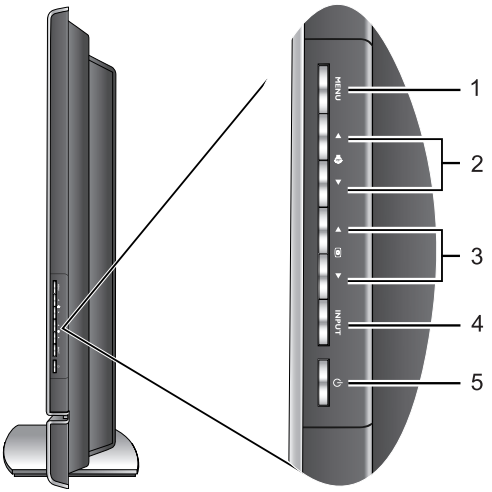
You can connect a PC video card graphic source (if available) like a VGA output or a digital DVI output. If your device supports HDMI output, you can also use the HDMI input on the TV for connection. Select the **PC**, **DVI** or **HDMI** input respectively to view the display. See "Connecting the PC input" on page 29, "Connecting the DVI input" on page 30 and "Connecting the HDMI input" on page 29.

Front view



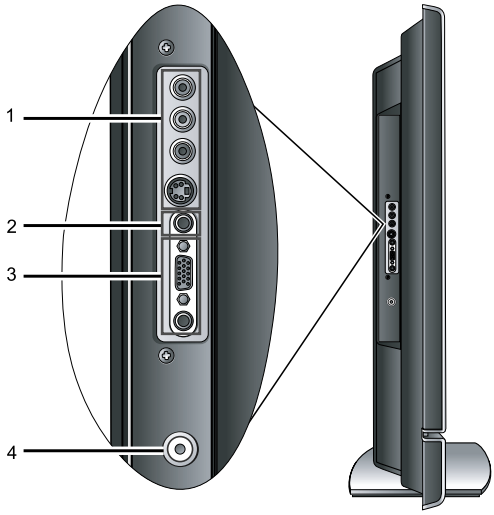
No.	Name	Description
1	Speakers	Left and right speakers for reproducing stereo audio.
2	Power indicator	• Lights up green when the TV is powered on. • Lights up red when the TV is in standby mode.
3	Ambient light sensor	If activated, this sensor detects ambient lighting condition and adjusts the brightness of the TV automatically. See "Backlight" on page 43 for more information.
4	Remote control sensor window	Receives command signals from the remote control. Do not obstruct the sensor by placing any objects in front of it, which will hinder the reception of signals.

Control panel



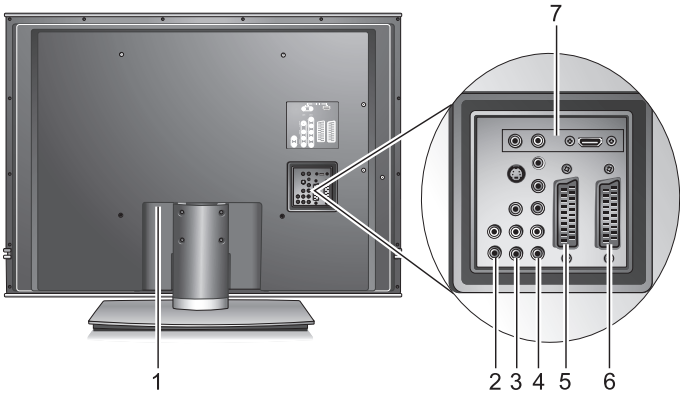
No.	Name	Description
1	MENU button	Displays the OSD menu if not visible, or exits the current menu if displayed. (Performs the same action as the **MENU** button on the remote control.)
2	(Volume) ▲/▼ buttons	• Adjusts the volume level of the speakers. (Performs the same action as the **Volume** **+/-** buttons on the remote control.) • In the OSD menu, moves the selection highlight left or right or changes settings. (Performs the same action as the ◀ / ▶ buttons on the remote control.)
3	(Program) ▲/▼ buttons	• Sequentially selects the previous or next tuned TV program. (Performs the same action as the **P (Program)** ▲/▼ buttons on the remote control.) • In the OSD menu, moves the selection highlight up or down. (Performs the same action as the ▲/▼ buttons on the remote control.)
4	INPUT button	• Cycles through possible input signal sources. (Performs the same action as the **Input** button on the remote control.) • In the OSD (On-Screen Display) menu, selects the highlighted menu item to enter a submenu. (Performs the same action as the **OK** button on the remote control.)
5	(Power/ standby) button	Toggles the TV between standby mode and on. (Performs the same action as the **Power/standby** button on the remote control.)

External AV devices (temporary) terminal panel



No.	Name	Description
1	AV5 VIDEO AV5 S-VIDEO	Connect to either the Composite Video (AV) or S-Video output as appropriate for your AV source device. See "Connecting the Composite Video input" on page 27 and "Connecting the S-Video input" on page 28. **Connect your external AV device using either the Composite Video or S-Video inputs. If both are connected to an AV source at the same time, S-Video input takes preference over Composite Video input. S-Video will provide a better quality image.**
	AV5 AUDIO L/R	Connect to the audio output of either the Composite Video or S-Video output as appropriate for your AV source device. (These inputs are common for either Composite Video or S-Video audio.) See "Connecting the Composite Video input" on page 27 and "Connecting the S-Video input" on page 28.
2	Headset socket	This socket is an audio output for connecting an external headset. The TV speakers will be muted whenever the headset socket is being used.
3	PC D-SUB	Connect to the VGA video (D-Sub) output of a PC. See "Connecting the PC input" on page 29.
	PC AUDIO	Connect to the audio output to match that of the VGA video output on a PC. See "Connecting the PC input" on page 29.
4	ATV	Connect to your antenna TV/CATV cable system. See "4. Connect the antenna cable" on page 4.

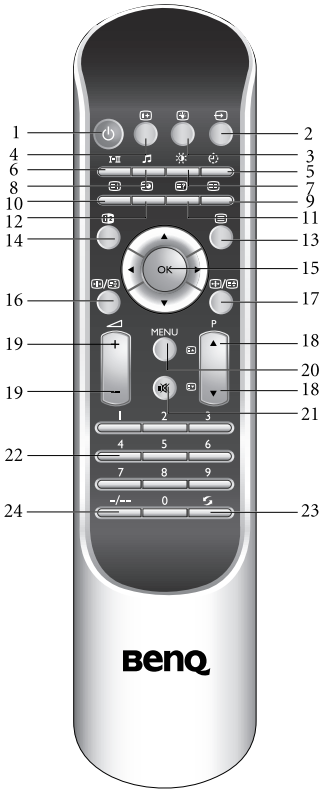
Rear view



No.	Name	Description
1	AC-INLET	Connect to the AC power cable. See "5. Connect the power cable" on page 4.
2	AUDIO OUT	Connect to the audio input of an audio or sub-woofer amplifier. This output is always available, however, its level is fixed and cannot be controlled by the Volume. See "Connecting the stereo audio output" on page 30.
3	AV4 VIDEO AV4 S-VIDEO	Connect to either the Composite Video (AV) or S-Video output as appropriate for your AV source device. See "Connecting the Composite Video input" on page 27 and "Connecting the S-Video input" on page 28. ☞ **Connect your external AV device using either the Composite Video or S-Video inputs. S-Video provides a better quality image. If both are connected to an AV source at the same time, only S-Video input will be displayed.**
	AV4 AUDIO L/R	Connect to the audio output of either the Composite Video or S-Video output as appropriate for your AV source device. (These inputs are common for either Composite Video or S-Video audio.) See "Connecting the Composite Video input" on page 27 and "Connecting the S-Video input" on page 28.
4	AV3 Y C_B/P_B C_R/P_R	Connect each to the component video (Y C_B/P_B C_R/P_R) output of an appropriate video source device. See "Connecting the Component Video input" on page 28.
	AV3 AUDIO L/R	Connect each to the component audio output of an appropriate video source device to match that of each component video input. See "Connecting the Component Video input" on page 28.

5	AV2	Connect each to the SCART input/output of an appropriate device. See "Connecting the SCART input" on page 26 and "Connecting the SCART output" on page 27.
6	AV1	
7	HDMI/DVI	Connect to the DVI digital video or HDMI digital audio/ video output of your digital source device. See "Connecting the DVI input" on page 30 and "Connecting the HDMI input" on page 29.
	DVI-AUDIO L/R	Connect to the DVI digital audio output of your digital source device. See "Connecting the DVI input" on page 30.

Getting to know the remote control



1. Power/standby
Press this button to power the TV on or put it to standby mode. See "Power on and standby" on page 21.

2. Input
Press this button to select an input source. See "Switching inputs" on page 21.

3. Backlight
Press this button to select your desired screen backlight level. See "Adjusting backlight" on page 24.

4. Information
Press this button to display the screen image source information. See "Displaying information" on page 25.

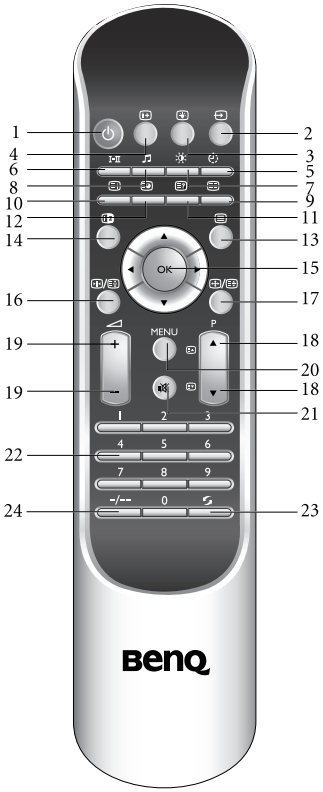
5. Sleep/blue
- Press this button to set the automatic shut-off timer. See "Using the sleep timer" on page 24.
- When Teletext displays on-screen, press this button to select the corresponding colour Teletext page. See "Using the Teletext function" on page 24.

6. I-II TV sound/red
- Press this button to toggle among available TV sound reception modes. See "Selecting a TV sound mode" on page 22.
- When Teletext displays on-screen, press this button to select the corresponding colour Teletext page. See "Using the Teletext function" on page 24.

7. Preset/yellow
- Press this button to select from among 4 preset picture modes. See "Selecting a picture mode" on page 23.
- When Teletext displays on-screen, press this button to select the corresponding colour Teletext page. See "Using the Teletext function" on page 24.

8. Audio/green
- Press this button to select from 5 preset EQ modes. See "Selecting a preset EQ mode" on page 22
- When Teletext displays on-screen, press this button to select the corresponding colour Teletext page. See "Using the Teletext function" on page 24.

9. Mode
Press this button to cycle the Teletext display mode between Teletext only or with Teletext superimposed on the display. See "Using the Teletext function" on page 24.



10. **Index**
Press this button to go to the Teletext index page. See "Using the Teletext function" on page 24.

11. **Reveal**
Press this button to display any concealed Teletext information. See "Using the Teletext function" on page 24.

12. **Subpage**
Press this button to enter the subpage of a Teletext menu. See "Using the Teletext function" on page 24.

13. **Teletext**
Press this button to turn the Teletext decoder on or off. Page store won't start until the Teletext decoder is activated.See "Using the Teletext function" on page 24.

14. **PIP**
Press this button to simultaneously view signals from two different sources on-screen. See "Using the PIP (Picture-In-Picture) function" on page 23.

15. **▲/▼/▶/◀ and OK**
When the OSD (On-Screen Display) menu displays on-screen:

- Press ▲ or ▼ to select settings.
- Press ▶ or ◀ to adjust settings.
- Press **OK** to execute selections, or to enter a submenu you have selected.

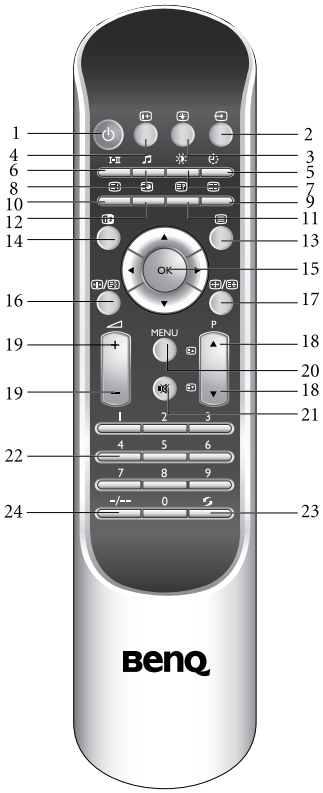
See "Navigating the OSD menu" on page 32.

16. **/ Freeze/Teletext freeze**

- Press this button to freeze the image on the screen. Press the button again to resume viewing in real time. See "Using the freeze function" on page 22.
- When Teletext displays on-screen, press this button to freeze Teletext messages. Press it again to restore normal update. See "Using the Teletext function" on page 24.

17. **/ Aspect/Teletext size**

- Press this button to adjust the screen image aspect ratio. See "Adjusting aspect ratio" on page 25.
- When Teletext displays on-screen, press this button to enlarge Teletext size. Press it again to resume normal size. See "Using the Teletext function" on page 24.



18. ▲/▼ Program

- Press these buttons to sequentially change programs. See "Changing programs" on page 22.
- When Teletext displays on-screen, press these buttons to go to the previous or next page, or go to the subpage (if available). See "Using the Teletext function" on page 24.

19. +/- Volume

Press these buttons to raise or lower the volume level. See "Adjusting volume" on page 21.

20. MENU

Press this button to display the OSD menu for commands and settings. Press it again to close. See "Navigating the OSD menu" on page 32.

21. Mute

Press this button to mute the sound output. Press it again to restore the sound output. See "Mute setting" on page 21.

22. Program selection

Press these buttons to select the program you wish to view. See "Selecting a program directly" on page 22

23. Recall

- When viewing TV programs, press this button to toggle between the current and the previous program you were viewing. See "Returning to the previous viewed program or input" on page 22.
- When viewing different input sources, press this button to toggle between the current and previous viewed input sources. See "Switching inputs" on page 21.

24. -/-- Program entry

Press this button prior to entering 2-digit program numbers. See "Selecting a program directly" on page 22.

Using the remote control

Power on and standby

Turning the TV on

After plugging the TV's power cable into a wall outlet and turning on the main power switch, the TV will enter standby mode automatically. The power indicator will light up red.

Press **(Power/standby)** on the TV, or **Power/standby** on the remote control. The TV will turn on and the power indicator will change to green.

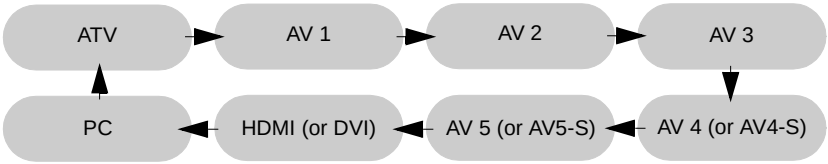
You can also turn the TV on and view ATV input by pressing P (Program) ▲, P (Program) ▼ or any Program selection numeric button on the remote control.

Putting the TV to standby

Press **(Power/standby)** on the TV, or **Power/standby** on the remote control again, and the TV will return to standby mode. The power indicator will turn red.

Switching inputs

1. Turn on all connected equipment or devices before selecting an input.
2. Press **INPUT** on the TV, or **Input** on the remote control to display the current selected input. Press the button repeatedly until your desired input is displayed. The sequence is as follows:



- **DVI will appear only when DVI signal is connected to the HDMI input.**
- **AV4-S and AV5-S will appear only when S-Video signals are connected to the AV4 and AV5 S-Video inputs.**
- **If both Composite Video (AV) and S-Video signals are connected to the AV4 or AV5 inputs at the same time, only S-Video input will be displayed. If you wish to view the Composite Video (AV) input in such case, remove the S-Video connection temporarily.**
- **Be aware that HDMI input must be HDCP-compliant to be displayed.**

Adjusting sound settings

Adjusting volume

- Press **(Volume)▲** on the TV, or **Volume +** on the remote control to increase volume. The volume indicator increases in length as volume rises.
- Press **(Volume)▼** on the TV, or **Volume -** on the remote control to decrease volume. The volume indicator decreases in length as volume falls.

Mute setting

- Press **Mute** on the remote control to turn off the audio temporarily.
- Press **Mute** again, or press **Volume +** or **Volume -** to restore the sound level.

The sound level will also be restored if the TV is put to standby mode and subsequently turned on.

Selecting a TV sound mode

Press **TV sound/red I-II** on the remote control to select **Sound 1**, **Sound 2**, **Sound 3**, **NICAM**, **Automatic**, **Stereo**, or **Mono** systems (the items available will depend on the TV and video sound system being received).

Selecting a preset EQ mode

Press **Audio/green** ♫ on the remote control to select a suitable EQ (Equalizer) mode from **Classic**, **POP**, **JAZZ**, **Rock** and **Personal**. You can also customise the **Personal** sound mode according to your preference. See "Setting up Personal EQ mode" on page 34.

Changing programs

Selecting a program directly

- To select a single-digit program number, press the corresponding program selection button. For example, to select program 8, press 8.
- To select a double-digit program number, press **Program entry** -/--, followed by the corresponding program selection buttons. For example, to select program 28, press **Program entry** -/-- and then 2, 8.

Changing programs sequentially

Press **P (Program)** ▲ or **P (Program)** ▼ on the remote control, or **(Program)** ▲ or **(Program)** ▼ on the TV to sequentially cycle through your TV programs.

Returning to the previous viewed program or input

- When viewing ATV input, you can press **Recall** on the remote control to quickly return to the previous viewed program. This button can be used to toggle between the two most recently viewed programs without having to entering the precise program number.
- If you have just switched from a different input source to the current one, you can also press **Recall** on the remote control to toggle between the current and previous viewed input sources.

Using the freeze function

Press **Freeze /Teletext freeze** / on the remote control to freeze the image on the screen. Press it again to restore normal viewing.

This freeze function does not control the input source which will continue normally, but not be displayed whilst the image remains frozen. When the image freeze is stopped, normal play will resume in real time. That is, the displayed image will jump to the current time and any interim video is not displayed.

Do not leave the screen displaying a static image for an extended period of time (days) because you may temporarily or permanently damage the screen resulting in image traces which could remain visible long after the original image has been removed.

Selecting a picture mode

To select a picture mode, press **Preset/yellow** ☼ on the remote control. This enables you to select from the following settings:

Picture mode	Description
Dynamic	Suitable for viewing in brighter environments. The colour, contrast, and brightness of the image is increased to suit the brighter lighting condition.
Standard	Suitable for viewing in environments with normal lighting condition. This most closely represents the broadcast standard quality. No alteration to colour, contract or brightness has been made.
Cinema	Suitable for viewing movies in darker environments. The colour has been adjusted to more accurately represent natural skin tones.
Personal	Your own customised picture mode. See "Setting up Personal Picture mode" on page 36.

Using the PIP (Picture-In-Picture) function

If the TV is connected to either a TV antenna or Video image source, and also to an active Graphic image source at the same time, you can display both images on the screen simultaneously by using PIP (Picture-In-Picture) mode.

☞ **• PC or DVI must be selected as one of the input sources in PIP mode.**
• In PIP mode, Teletext will not display. Some of the remote control functions will also be unavailable.
• See "Input options" on page 12 for definitions of Video and Graphic input sources.

To display images in PIP mode:

1. Make sure that both Video and Graphic image sources are connected to the TV.
2. Press **Input** ⊣→ on the remote control to select a Graphic image source (**PC** or **DVI**) as the input source.
3. Press **PIP** 1 2 on the remote control to switch display to PIP mode. Each press cycles the display through the following display sequence:

Full screen PIP mode Full screen

- To change the input source for the sub picture, press **Input** ⊣→ on the remote control.

☞ **Component Video (AV3) input image cannot be displayed in PIP mode and cannot be selected.**

- To change the position of the sub picture on the screen, press ▲, ▼, ◀ or ▶ on the remote control.
- To select audio from the main or sub picture, see "PIP Audio" on page 38.

Using the sleep timer

The sleep timer is useful if you want the TV to automatically to go into standby mode after a set period of time.

1. Press **Sleep/blue** on the remote control to activate the sleep timer function.
2. Press the button again to set the time interval. Time is set in increments of 30 minutes, from 0 to 180 minutes.

1 minute before the expiration of the set time, a message will display on-screen as a reminder. You can press **OK** to reset the sleep timer and the TV will remain on. At the expiration of this time, the TV will be turned off automatically.

Adjusting backlight

To adjust the intensity of your TV's backlight system, press **Backlight** on the remote control to select between **Bright**, **Normal**, **Dark** or **Auto**.

When viewing the TV in dimly lit rooms it is recommended to set the backlight to **Dark** which will reduce the image brightness and make the dark areas of the image darker thus maintaining a high contrast image in a dark environment. If **Auto** is selected, the ambient light sensor on the TV will be activated and the TV's backlight will be changed automatically according to the ambient lighting condition.

Using the Teletext function

Press **Teletext** on the remote control to display Teletext, and again to turn it off.

Teletext is only available when ATV, Composite Video (via the AV1, AV2, AV4 and AV5 inputs) or S-Video (via the AV4-S and AV5-S inputs) is selected as the input source, and a signal which transmits Teletext is currently displayed. Not all TV stations and video signals broadcast Teletext. If in doubt, please contact the TV station or the video source provider.

When Teletext displays on-screen, you can:

- Press **Mode** to cycle between Teletext only and superimposed on the video image.
- Press **Index** to go to the Teletext index page.
- Press **Reveal** to display any concealed Teletext information if available.
- Press **Subpage** to view the subpages when provided.

If subpages are available, the page number (at top left) will display a small red "s": e.g. "100s".

- Press **Aspect/Teletext size** / to enlarge Teletext size. Press it again to resume normal size.
- Press **Freeze /Teletext freeze** / to freeze Teletext messages. Press it again to restore normal update.
- Press **TV sound/red** I-II, **Audio/green** ♫, **Preset/yellow** ☼ or **Sleep / blue** to jump to the corresponding coloured pages as displayed across the bottom of the Teletext screen.
- Press ▲ or ▼ to go to the previous or next Teletext page, or to move between subpages when selected.

Displaying information

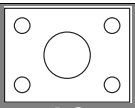
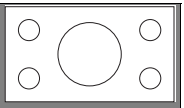
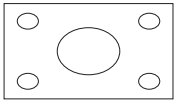
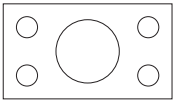
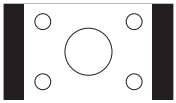
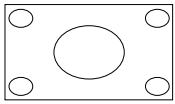
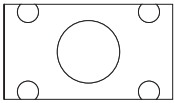
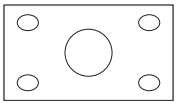
Press **Information** (i+) on the remote control to display the input signal information. The information displayed varies according to the input source being selected.

Adjusting aspect ratio

The TV can resize and reshape an image to suit your requirements. The visual result will depend upon the setting your have chosen, and the original aspect ratio of the input image.

⚠ **IMPORTANT: Aspect ratio selection is designed to allow you to adjust the display of images which are in 4:3 aspect ratio. This feature is not recommended for use with 16:9 aspect images.**

Press **Aspect/Teletext size** (↔) **/** (↕) on the remote control to cycle through the aspect ratios. The table below shows the resultant displayed images in relation to the input image when different aspects are selected:

Aspect ratio selection	Description and usage	 4:3	 16:9
16:9	Stretches a 4:3 image to 16:9 aspect proportions. Recommended for use when viewing video sources which are already in 16:9 aspect such as digital TV and most widescreen DVDs.		
4:3	Resizes the image to 4:3 aspect proportions. Recommended for use when viewing video sources which are already in 4:3 aspect such as analog TV and PC video input.		(Do not select)
16:9 Adj. (Adjust)	Stretches a 4:3 image to 16:9 aspect proportions and enlarges the resultant image on the screen. You can press ▲ or ▼ on the remote control to pan the enlarged image. Recommended for use when viewing video sources which are in 4:3 aspect such as analog TV input.		(Do not select)
Letter Box	Resizes a 4:3 image to 16:9 aspect proportions, and trims off the top and bottom strips. Recommended for use when viewing 4:3 aspect video presenting compressed 16:9 aspect images in a 4:3 aspect frame in a so-called letterbox format (black strips along the top and bottom).		(Do not select)
Cinema	Stretches a 4:3 image to the width of a 16:9 aspect image proportions. recommended for use in filling the screen with a 4:3 aspect image.		(Do not select)

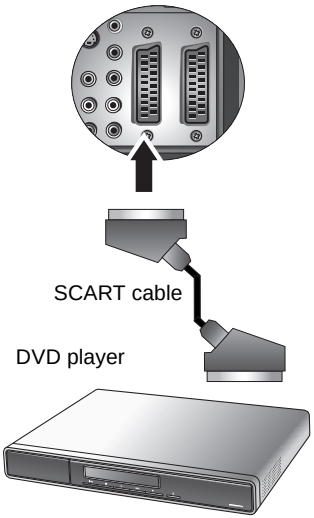
Connecting audio and video inputs

- Before connecting any devices, please turn all equipment off.
- To obtain the most benefit from the digital LCD screen, you should select the connection method which will provide you with the best possible signal. See "Input options" on page 12.
- Do not pull cables out of sockets by grasping the cable itself, as you may damage the cable. Only ever remove cables from sockets by grasping the plug on the end of the cable.
- Once connected, please ensure that all plugs are fully inserted and firmly seated. Be aware that if incorrect connections are made, picture quality may be adversely affected.

Connecting the SCART input

Connect the AV 1 or AV 2 terminal on the TV to the SCART terminal on your output equipment using a SCART cable (not provided).
To view video image from these inputs, press **Input** and select **AV 1** or **AV 2**.

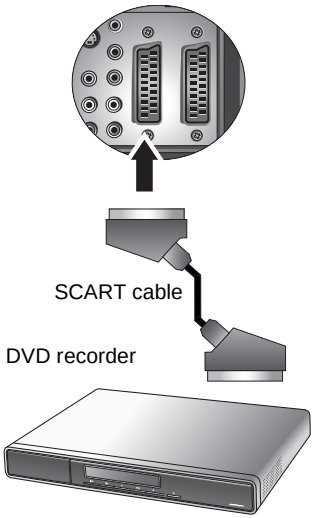
The SCART 1 and SCART 2 terminals support the input of the following types of signals:
- **Composite Video**
- **RGB**
- **S-Video**



Connecting the SCART output

Connect the AV 1 or AV 2 terminal on the TV to the SCART terminal on your input equipment using a SCART cable (not provided).

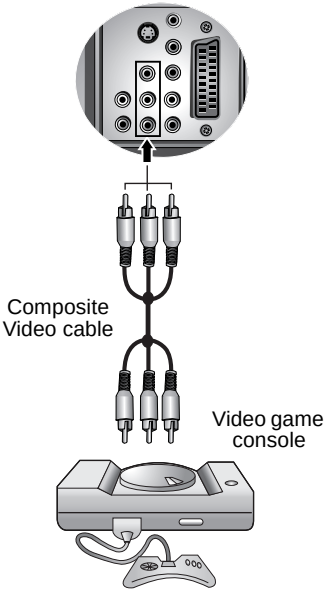
☞ **If the ATV antenna input is available, the AV 1 and AV 2 terminals on the TV support the output (relay) of ATV signal to other devices.**



Connecting the Composite Video input

Connect the Composite Video output of your output equipment to the AV4 or AV5 VIDEO and AUDIO L/R terminals on the TV using the Composite Video cable as illustrated.
A Composite Video cable consists of three connectors: Yellow (video), White (left channel audio), and Red (right channel audio). Ensure that the colours of the plugs and terminals match when making connection.
To view video image from this input, press **Input** ⊕ and select **AV4** or **AV5**.

☞ **Composite Video provides the least optimal image quality. Both S-Video and Component Video provide better quality video signals. If available on the video source device, you should use one of those connections instead of composite Video.**
AV4 and AV5 both support composite Video and S-Video signal inputs. If you use S-Video, you cannot use Composite Video for that input.

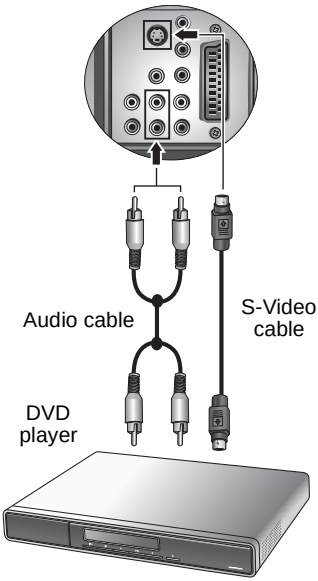


Connecting the S-Video input

1. Connect the S-Video output of your output equipment to the TV's AV4 or AV5 S-VIDEO terminal using an S-Video cable (not provided). Pay attention to the alignment of the plugs on the S-Video cable when inserting so as not to damage any pins.
2. Connect the corresponding audio output of the output equipment to the S-Video AUDIO L/R input terminals using a suitable audio cable (or use the Composite Video cable. The yellow plug is not used).

To view video image from these inputs, press **Input** → and select **AV4-S** or **AV5-S**.

☞ **You should not connect both a composite Video and an S-Video from the same device; just one or the other. If you have the choice, use the S-Video instead of composite Video as an S-video signal provides a higher quality signal to that of composite Video. AV4 and AV5 both support composite Video and S-Video signal inputs. If you use S-Video, you cannot use Composite Video for that input.**

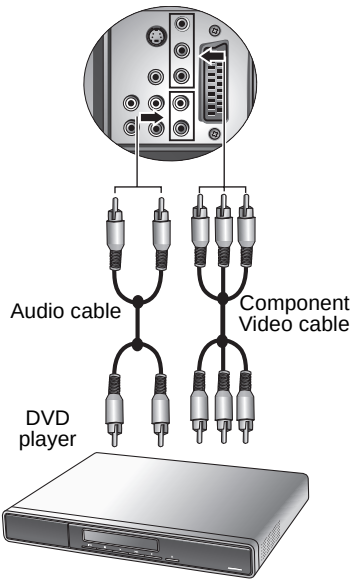


Connecting the Component Video input

1. Connect the Component Video output of your output equipment to the TV's AV3 Y, C_B/P_B and C_R/P_R terminals using a Component Video cable (not provided). A Component Video cable consists of three plugs: Green (Y), Blue (C_B/P_B), and Red (C_R/P_R). Ensure that the colours of the plugs and terminals match when making connection.
2. Connect the corresponding audio output of your output equipment to the Component Video AUDIO L/R input terminals on the TV using an audio cable (not provided).

To view video image from these inputs, press **Input** → and select **AV3**.

☞ **Of the analog video signal types, Component Video offers the best quality. See "Supported Component Video/HDMI input signal resolution" on page 50 for supported resolutions.**

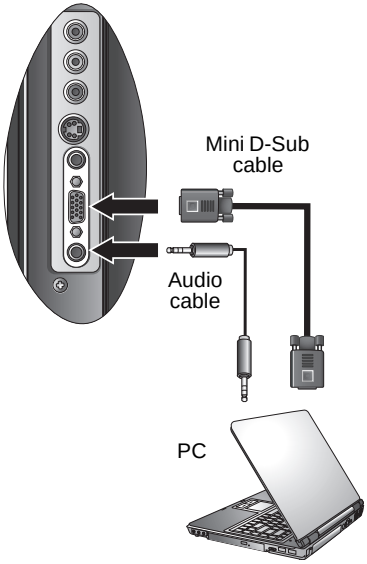


Connecting the PC input

1. Connect the VGA (D-Sub) output of your PC to the PC D-SUB terminal on the TV using a mini (15-pin) D-Sub cable (not provided).
2. Connect the audio output of your PC to the TV's PC AUDIO terminal using an appropriate Mini-jack stereo audio cable (not provided).

To view video image from this input, press **Input** and select **PC**.

When you connect the TV to a PC, you should adjust the resolution in the display properties of the computer to closely match the native resolution of the TV (for example, 1360 x 768 pixels). See "Supported PC (D-Sub/DVI) input signal resolution" on page 50 on other supported resolutions.
To view the best quality picture when using the PC input, you will then need to instruct the TV to calibrate itself to the PC signal timing. To do so, select 'Auto' in the 'Picture' menu. See "Picture menu" on page 35.

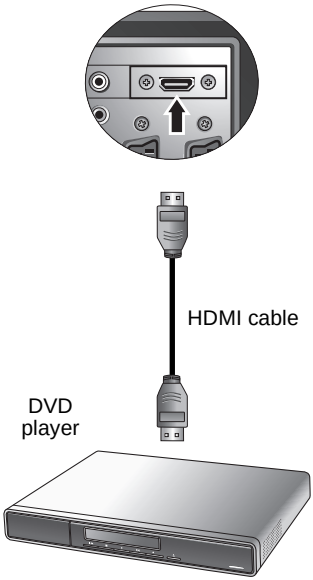


Connecting the HDMI input

Connect the HDMI output of your output equipment to the HDMI terminal on the TV using an HDMI cable (not provided).

To view video image from this input, press **Input** and select **HDMI**.

HDMI (High-Definition Multimedia Interface) is an uncompressed and all-digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, or A/V receiver over a single cable.
Be aware that HDMI input must be HDCP-compliant to be displayed.
See "Supported Component Video/HDMI input signal resolution" on page 50 for supported resolutions.

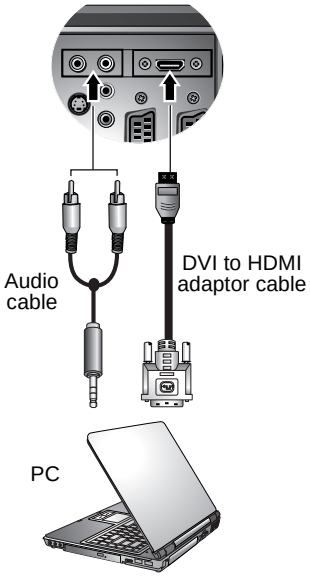


Connecting the DVI input

1. Connect the digital video output of your output equipment to the HDMI terminal on the TV using a DVI to HDMI adaptor cable (not provided).
2. Connect the DVI audio output of your output equipment to the TV's DVI- AUDIO L/R input terminals using an appropriate audio cable (not provided).

To view video image from this input, press **Input** and select **DVI**.

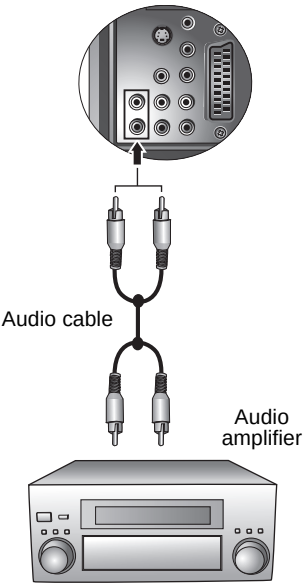
Remember to set the type of DVI input according to the device connected (a PC or digital Set Top Box) in the Setup menu. See "DVI Input" on page 43.
The DVI input only supports signals higher than 480i and 576i. When connected to a High Definition Set Top Box, it is recommended that you set the output resolution to 1080i.
When you connect the TV to a PC, you should adjust the resolution in the display properties of the computer to closely match the native resolution of the TV (for example, 1360 x 768 pixels). See "Supported PC (D-Sub/DVI) input signal resolution" on page 50 on other supported resolutions.



Connecting the stereo audio output

This TV provides a set of (RCA type) stereo audio output terminals for delivering the audio signal to a sound system or other audio devices. Connect the audio input terminals of an amplifier or other audio device to the AUDIO OUT L/R terminals on the TV using a suitable audio cable.

This output is always available. Its level is fixed and cannot be adjusted by the Volume setting of the TV.



On-Screen Display (OSD) menu

OSD structure

<table>
<tr><th rowspan="2"></th><th colspan="7">Input signal type</th></tr>
<tr><th>ATV</th><th>AV1, AV2, AV4, AV4-S, AV5, AV5-S</th><th>AV3</th><th>PC</th><th>DVI (PC mode)</th><th>DVI (Video mode)</th><th>HDMI</th></tr>
<tr><td>Audio</td><td colspan="7">• Volume
• Balance
• Sound Type
• Steady Sound
• Surround
• Speaker Out
• Advanced Audio Settings</td></tr>
<tr><td>Picture</td><td colspan="2">• Picture Mode
• Contrast
• Brightness
• Colour
• Sharpness
• Colour TEMP.
• NTSC Tint
• NTSC Setup</td><td>• Picture Mode
• Contrast
• Brightness
• Colour
• Sharpness
• Colour TEMP.</td><td>• Contrast
• Brightness
• Colour TEMP.
• Auto
• Frequency
• Phase
• H. Position
• V. Position</td><td colspan="2">• Contrast
• Brightness
• Colour TEMP.</td><td>• Picture Mode
• Contrast
• Brightness
• Colour
• Sharpness
• Colour TEMP.</td></tr>
<tr><td>Feature</td><td colspan="3">• Black Extension
• ACE
• Noise Reduction
• Aspect Ratio
• Auto Format</td><td colspan="4">• Aspect Ratio</td></tr>
<tr><td>Window</td><td colspan="3">(Not available)</td><td colspan="2">• PIP
• Main Input
• Sub Input
• PIP Audio</td><td colspan="2">(Not available)</td></tr>
<tr><td>TV</td><td>• Auto Installation
• Manual Installation
• Program Edit
• Child Lock</td><td colspan="6">(Not available)</td></tr>
<tr><td>Setup</td><td colspan="7">• Language
• Backlight
• Sleep Timer
• ECO
• DVI Input
• Reset All Settings</td></tr>
</table>

☞ **• The available menu items are dependent on the input source being selected. Unavailable items will be greyed out or not displayed.**

• For details see:

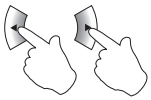
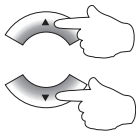
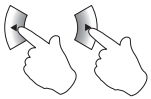
"Audio menu" on page 33
"Picture menu" on page 35
"Feature menu" on page 37
"Window menu" on page 38
"TV menu" on page 39
"Setup menu" on page 43

Navigating the OSD menu

You can use the On-Screen Display (OSD) menu to adjust the settings on your TV.

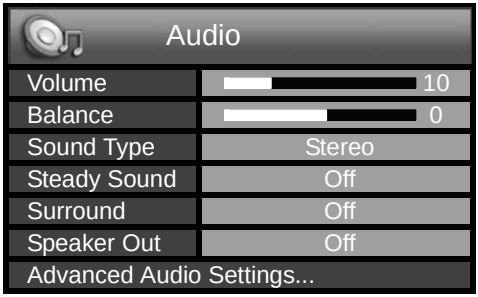
1. Press **MENU** on the remote control, or **MENU** on the TV to display the OSD menu on-screen.
2. Press ◀ or ▶ on the remote control, or **(Volume)** ▲ or **(Volume)** ▼ on the TV to select an item in the menu.
3. Press **OK** on the remote control, or **INPUT** on the TV to enter the submenu.
4. Press ▲ or ▼ on the remote control, or **(Program)** ▲ or **(Program)** ▼ on the TV to select an item in the submenu.
5. Press ◀ or ▶ on the remote control, or **(Volume)** ▲ or **(Volume)** ▼ on the TV to adjust settings. Press **OK** to enter the submenu if available.
6. Press **MENU** on the remote control, or **MENU** on the TV to return to the previous menu layer, or close the OSD menu.

For example, to adjust image sharpness using the OSD menu:

	1. Press **MENU** on the remote control, or **MENU** on the TV to display the OSD menu on-screen.
	2. Press ◀ or ▶ on the remote control, or **(Volume)** ▲ or **(Volume)** ▼ on the TV to select **Picture**.
	3. Press **OK** on the remote control, or **INPUT** on the TV to enter the **Picture** menu.
	4. Press ▲ or ▼ on the remote control, or **(Program)** ▲ or **(Program)** ▼ on the TV to select **Sharpness**.
	5. Press ◀ or ▶ on the remote control, or **(Volume)** ▲ or **(Volume)** ▼ on the TV to adjust setting.
	6. Press **MENU** on the remote control, or **MENU** on the TV several times to close the OSD menu.

Audio menu

☞ **The available menu items are dependent on the input source being selected.**
The illustration is for reference only.



Item	Function	Operation	Range
Volume	Adjusts volume level.	Press ▸ to increase or ◂ to decrease volume.	0 to 47
Balance	Adjusts left or right speaker volume level.	Press ▸ to increase right speaker volume, ◂ to increase left speaker volume level.	-12 to 12
Sound Type	Selects TV and AV input audio type. ☞ **Available options are dependent upon the received signal.**	Press ▸ or ◂ to change selection.	• Automatic • Mono • Stereo • NICAM • Sound 1 • Sound 2 • Sound 3
Steady Sound	Automatically adjusts the sound level to be constant amongst different TV stations when viewing TV programs.		• Off • Auto
Surround	Activates or deactivates the Surround sound effect.		• Dolby • Off
Speaker Out	Enables or disables sound output to the built-in speakers of the TV.		• On • Off
Advanced Audio Settings - Press **OK** to enter.			
EQ Mode	To restore a factory preset or user customised EQ mode. ☞ **You can also press Audio/green ♫ to jump to an EQ mode directly.**	Press ▸ or ◂ to change selection.	• Classic • POP • JAZZ • Rock • Personal

Treble	Adjusts treble tones for the **Personal** preset mode.	Press ▶ or ◀ to make adjustment.	-12 to 12
Mid Treble	Adjusts mid-treble tones for the **Personal** preset mode.		
Medium	Adjusts mid tones for the **Personal** preset mode.		
Medium Bass	Adjusts mid-bass tones for the **Personal** preset mode.		
Bass	Adjusts bass tones for the **Personal** preset mode.		

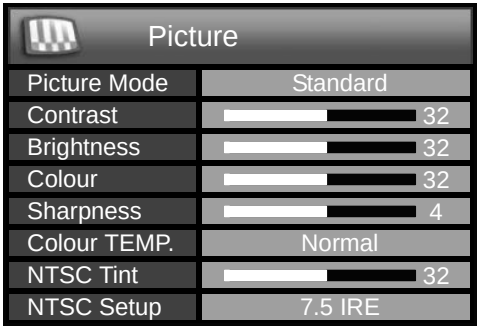
Setting up Personal EQ mode

You can adjust the settings in the Advanced Audio Settings menu and save them as your Personal EQ mode. Once set, you can press **Audio/green** ♫ on the remote control to quickly jump to this mode.

1. In the **Audio** menu, press ▲ or ▼ to select **Advanced Audio Settings**, and then press **OK**.
2. Press ▲ or ▼ to select **EQ Mode**, and the press ◀ or ▶ to select **Personal**.
3. Press ▲ or ▼ to select the Treble, Mid Treble, Middle..., etc. options and press ◀ or ▶ to adjust the settings to your satisfaction.
4. Press **MENU** to save and exit.

Picture menu

☞ **The available menu items are dependent on the input source being selected.**
The illustration is for reference only.



Item	Function	Operation	Range
Picture Mode	Provides complete preferred setups adjusted for colour, contrast, brightness and sharpness to suit various viewing situations. ☞ **You can also press Preset/yellow ☼ to jump to a picture mode directly.**	Press ▸ or ◂ to change selection.	• Dynamic • Standard • Cinema • Personal
Contrast	Adjusts image white level so that whites do not wash out surrounding colours.	Press ▸ for brighter whites, ◂ for darker whites.	0 to 64
Brightness	Adjusts image black level, so that detail in the dark areas of an image can be seen.	Press ▸ for brighter blacks, ◂ for darker blacks.	
Colour	Adjusts image colour intensity.	Press ▸ for more intense colours, ◂ for less intense colours.	
Sharpness	Adjusts image sharpness level.	Press ▸ for sharper image, ◂ for softer image.	0 to 7
Colour TEMP.	Adjusts the colour tint of the black and white part of the image.	Press ▸ or ◂ to change selection.	• **Cool**: Biased toward blue - for PC input use • **Normal**: Standard video/ TV colour temperature • **Warm**: Biased toward red for movie standard.

NTSC Tint	Adjusts colour tint ☞ **This option is only available for NTSC video sources.**	Press ▸ for redder tones, ◂ for greener tones.	0 to 64
NTSC Setup	Sets up the NTSC video display format to match that of the input NTSC video input from other devices (such as a DVD player). ☞ **This option is only available for NTSC video sources.**	Press ▸ or ◂ to change selection.	• 0 IRE • 7.5 IRE
Auto	Automatically adjusts frequency, phase, H. position and V. position to place the image on the screen.	Press **OK** to begin the auto adjustment function.	
Frequency	Adjusts the display clock frequency.	Press ▸ or ◂ to make adjustment.	(Dependent on the resolution of the received signal)
Phase	Adjusts the display clock phase.		
H. Position	Adjusts the horizontal position of the image.		
V. Position	Adjusts the vertical position of the image.		

Setting up Personal Picture mode

You can adjust the settings in the Picture menu and save them as your Personal Picture mode. Once set, you can press **Preset/yellow** ☼ on the remote control to quickly jump to this mode.

1. In the **Picture** menu, press ▲ or ▼ to select **Picture Mode**, and then press ◂ or ▸ to select **Personal**.
2. Adjust the Brightness, Contrast and Colour..., etc. settings to your satisfaction.
3. Press **MENU** to save and exit.

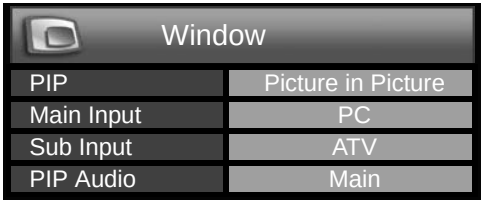
Feature menu

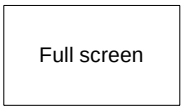
☞ **The available menu items are dependent on the input source being selected.**
The illustration is for reference only.

Item	Function	Operation	Range
Black Extension	Enhances the contrast among details when viewing dark images. ☞ **This option will not be available if the ACE function is set to Low, Medium or High.**	Press ▸ or ◂ to change selection.	• Low • Medium • High • Off
ACE (Auto Contrast Enhancement)	Adjusts the auto contrast enhancement function that optimizes the image contrast ratio for interlaced inputs.		• Low • Medium • High • Off
Noise Reduction	Adjusts the image noise reduction function that helps to remove noise in TV images. Suitable in fringe and poor TV reception areas. ☞ **This option will not be available if the currently displaying Component Video input resolution is higher than 576i.**		• Low • Medium • High • Off
Aspect Ratio	Adjusts image aspect ratio.		See "Adjusting aspect ratio" on page 25 for more information.
Auto Format	If set to **On**, the TV will automatically adjust screen aspect ratio when the SCART inputs are used, or when a WSS (Wide Screen Signaling) signal is detected from Composite Video or S-Video input signals.		• On • Off

Window menu

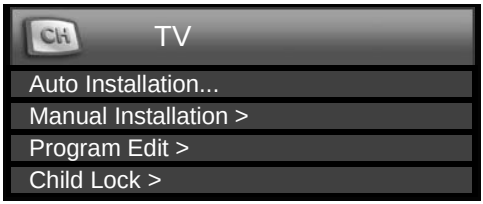
☞ **The available menu items are dependent on the input source being selected.**
The illustration is for reference only.



Item	Function	Operation	Range
PIP	Display Video and Graphic images simultaneously in Picture-In-Picture (PIP) mode.	Press ▸ or ◂ to change selection.	• Full Screen  • Picture in Picture
Main Input	Select the graphic signal input source for the PIP function. ☞ **The DVI input image will be displayed only when a DVI input in PC mode is connected to the TV, and the DVI Input option in the Setup menu (see "DVI Input" on page 43) is set to PC.**		• PC • DVI
Sub Input	Select the video signal input source for the PIP function. ☞ **This option is available only if the PIP item is set to Picture in Picture.** **The Component Video input (AV3) image cannot be displayed in the Sub Window and cannot be selected.** **The sub window only supports Video input up to 480p.**		• ATV • AV1 • AV2 • AV4 (AV4-S) • AV5 (AV5-S)
PIP Audio	Select the audio source in PIP mode. ☞ **This option is available only if the PIP item is set to Picture in Picture.**		• Main • Sub

TV menu

☞ **The available menu items are dependent on the input source being selected.**
The illustration is for reference only.



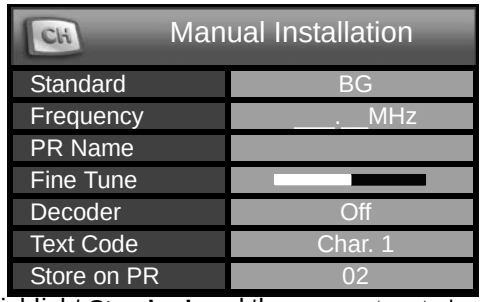
Item	Function	Operation	Range
Auto Installation	See "8. Initialize your TV" on page 7.		
Manual Installation	See "Performing manual installation" below.		
Program Edit	See "Editing programs" on page 40.		
Child Lock	See "Child Lock" on page 41.		

Performing manual installation

The Manual Installation feature allows you to add programs to the sequential programs list.

☞ **This option is not possible when the Child Lock is activated. See "Child Lock" on page 41.**

1. From the **TV** menu, press ▲ or ▼ to select **Manual Installation** and then press **OK**. The following menu will display:



2. Press ▼ to highlight **Standard**, and then press ◀ or ▶ to select a TV standard according to your country.
3. Press ▼ to highlight **Frequency** and then press ◀ or ▶ to start the tuning system. If the tuned program is incorrect, press ◀ or ▶ again until your desired program is located. You can directly input the frequency using the Program selection numeric buttons on the remote control if you wish.
4. Press ▼ to highlight **Fine Tune** and then press ◀ or ▶ to adjust the reception of TV signal (only necessary where the image or sound reception is poor).
5. If the SCART input is connected, press ▼ to highlight **Decoder** and then press ◀ or ▶ to select from the following options:

- **On**: Select this option if an external decoder Set-Top-Box (STB) is being used.
- **Off**: Select this option if no external decoder STB is being used.

6. Press ▼ to highlight **Text Code** and then press ◀ or ▶ to select a code format for the Teletext function.

7. Press ▼ to highlight **Store on PR**, and then press the Program selection numeric buttons on the remote control to enter the number (location) for this program. Press **OK** to confirm.
8. Press **MENU** to save the program and close the menu.

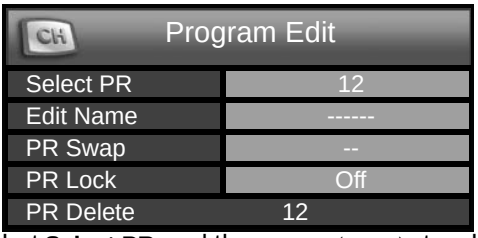
Editing programs

You can delete unwanted programs, add a program name and change the program position number.

☞ **This option is not possible when the Child Lock is activated. See "Child Lock" on page 41.**

Naming a program

1. In the **TV** menu, press ▲ or ▼ to select **Program Edit** and then press **OK**. The following menu will display:



2. Press ▼ to select **Select PR**, and then press ◀ or ▶ to select the program you wish to name. You can also press the Program selection numeric buttons on the remote control to select the program directly. Two digit entry is required. For example, press "0", "2" to select program 2.
3. Press ▼ to highlight **Edit Name**, and then press ◀ or ▶ to highlight the character you want to edit, ▲ or ▼ to change it to your desired character.
4. Repeat step 3 to edit other characters.
5. Press **OK** to store the name.
6. Press **MENU** to close the menu.

Swapping programs

1. In the **TV** menu, press ▲ or ▼ to select **Program Edit** and then press **OK**.
2. Press ▼ to select **Select PR**, and then press ◀ or ▶ to select the program you wish to relocate to a different position. You can also press the Program selection numeric buttons on the remote control to select the program directly. Two digit entry is required. For example, press "0", "2" to select program 2.
3. Press ▼ to highlight **PR Swap**, and then press the Program selection numeric buttons on the remote control to select the new location for the program. Two digit entry is required. For example, press "0", "5" to select program location 5.
4. Press **OK** and the current program is changed to the new location.
5. Press **MENU** to close the menu.

Locking/unlocking a program for the Child Lock function

☞ **See "Child Lock" below for information about the Child Lock function.**

1. In the **TV** menu, press ▲ or ▼ to select **Program Edit** and then press **OK**.
2. Press ▼ to select **Select PR**, and then press ◀ or ▶ to select the program you wish to lock. You can also press the Program selection numeric buttons on the remote control to select the program directly. Two digit entry is required. For example, press "0", "2" to select program 2.
3. Press ▼ to highlight **PR Lock**, and then press ◀ or ▶ to select from the following options:

- **On**: Lock the selected program.
- **Off**: Unlock the selected program.

4. Press **MENU** to close the menu. All programs which are locked cannot be viewed when the Child Lock function is enabled.

Deleting a program

1. In the **TV** menu, press ▲ or ▼ to select **Program Edit** and then press **OK**.
2. Press ▼ to select **Select PR**, and then press ◀ or ▶ to select the program you wish to delete. You can also press the Program selection numeric buttons on the remote control to select the program directly. Two digit entry is required. For example, press "0", "2" to select program 2.
3. Press ▼ to highlight **PR Delete** and then press **OK** to delete the program.
4. Press the **MENU** button to close the menus.

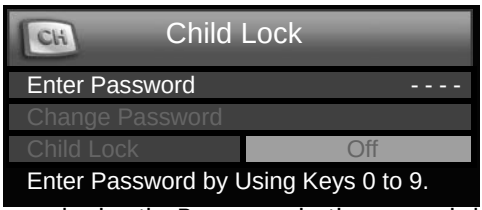
Child Lock

The Child Lock function can be used to prevent access to certain programs. For example, to prevent children from viewing inappropriate programs such as adult-only programs. This Child Lock only affects the TV/CATV input (not AV and Graphic inputs), and prohibits the selection or display of every program which has had its PR Lock menu item set to **On** (see "Locking/unlocking a program for the Child Lock function" above). The correct password is required to unlock and view those programs once Child Lock is enabled.

⚠ **WARNING: You will be inconvenienced if you activate the password functionality and subsequently forget the password. Write the password you use in this manual, and keep it in a safe place for later recall.**

Enabling/disabling Child Lock

1. In the **TV** menu, press ▲ or ▼ to select **Child Lock**, and then press **OK**. The following menu will display:



2. Enter the password using the Program selection numeric buttons **(default password: 0000)**. When entering, you can press ◀ to clear a wrong character. If you enter the wrong password, try again.

3. Press ▼ to select **Child Lock** and then press ◄ or ► to select from the following options:

- **On**: Enables the Child Lock. Once enabled, the program will be child-locked.
- **Off**: Disables the Child Lock.

Press **MENU** to close the menu.

Changing Child Lock password

1. In the **TV** menu, press ▲ or ▼ to select **Child Lock** and then press **OK**.
2. Enter the password using the Program selection numeric buttons **(default password: 0000)**. When entering, you can press ◄ to clear a wrong character. If you enter the wrong password, try again.
3. Press ▼ to select **Change Password** and then press **OK**.
4. Enter a new 4-digit password using the Program selection numeric buttons.

☞ **IMPORTANT: Write your selected password down here in this manual so that it is available to you should you ever forget it**

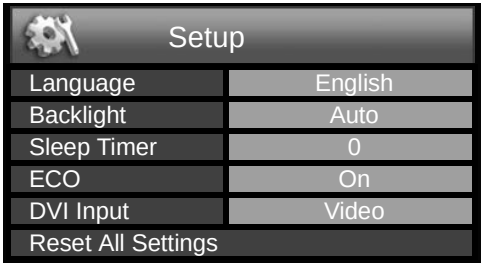
Password: __ __ __ __.

Keep this manual in a safe place.

5. Enter the new password again using the Program selection numeric buttons.
6. Press **MENU** to close the menu.

Setup menu

☞ **The available menu items are dependent on the input source being selected.**
The illustration is for reference only.



Item	Function	Operation	Range
Language	Select your desired language for the OSD menu.	Press ▸ or ◂ to change selection.	• English • Français • Nederlands • Deutsch • Italiano • Español
Backlight	Adjust backlight intensity. If **Auto** is selected, the ambient light sensor will be activated and the TV's backlight will be changed automatically according to the ambient lighting condition.		• Dark • Normal • Bright • Auto
Sleep Timer	Set the Sleep timer to automatically turn off the TV.		0, 30, 60, 90, 120, 150, 180 minutes
ECO	Once set to **On**, the TV will activate the Display Power Management System (DPMS) and enter power saving mode when no PC input signal is detected for 5 seconds, or enter standby mode automatically if no TV or Video signal is detected for 10 minutes.		• On • Off
DVI Input	Select the DVI input mode according to the device connected. Select **PC** if a PC is connected. If a video device (for example, a digital Set Top Box) is connected, select **Video**.		• PC • Video
Reset All Settings	Restore all settings to their default values.	Press **OK** to activate the reset.	

Reference

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Battery safety notice

The use of the wrong type of batteries may cause chemical leaks and/or explosion. Please note the following:

- Always ensure that the batteries are inserted with the positive and negative terminals in the correct direction as shown in the battery compartment.
- Different types of batteries have different characteristics. Do not mix different types.
- Do not mix old and new batteries. Mixing old and new batteries will shorten battery life and/or cause chemical leaks from the old batteries.
- When batteries fail to function, replace them immediately.
- Chemicals which leak from batteries may cause skin irritation. If any chemical matter seeps out of the batteries, wipe it up immediately using a dry cloth.
- Due to varying storage conditions, the battery life for the batteries included with your TV may be shortened. Replace them within 3 months or as soon as you can after initial use.

Important safety instructions

Electrical energy can perform many useful functions, but it can also cause personal injury and property damage if improperly handled. This TV has been engineered and manufactured with the highest priority on safety, however IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the TV. Proper care will also prolong the service life of your TV. Just follow these simple instructions before using your display

1. **Read instructions** - All operating instructions must be read and understood before the TV is operated.
2. **Retain instructions** - These safety and operating instructions must be kept in a safe place for future reference.

3. **Observe warnings** - All warnings on the TV and in the instructions must be observed closely.
4. **Follow instructions** - All operating instructions must be followed.
5. **Water and moisture** - Do not use this TV near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like. Do not use immediately after moving from a low temperature to a high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.
6. **Cleaning** - Unplug this TV from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Periodically clean the liquid crystal panel of the display to ensure a clear screen and prolong the service life of the panel. Use a clean, soft and cotton-free dry cloth to dip into the specific cleaner for the liquid crystal panel. Quickly wipe over the whole panel and use another cloth to clean the panel.
7. **Ventilation** - The vents and other openings in the cabinet are designed to let hot air escape from the TV. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the TV. Do not place the TV on a bed, sofa, rug or other similar surface, since they can block ventilation openings.
8. **Heat sources** - Keep the TV away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
9. **Power cord protection** - Power-supply cords should be routed so that they are not likely to be walked on or bitten by small animals. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the TV.
10. **Transporting the TV** - When the TV is used on a trolley, care should be taken to avoid quick stops, excessive force, and uneven surfaces that may cause the TV and trolley to overturn, damaging equipment or causing possible injury to the operator. Do not place this TV on an unstable trolley, stand, pedestal, bracket, or table. The TV may fall, causing serious injury to a child or adult and serious damage to the TV.
11. **Servicing** - Do not attempt to service the TV by yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
12. **Replacement parts** - In case the TV needs replacement parts, make sure that the service person uses replacement parts specified by BenQ, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
13. **Overloading** - Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
14. **Entering of objects and liquids** - Never poke an object into the TV through vents or openings. High voltage flows in the TV, and inserting an object can cause electric shock and/or short circuit internal parts. For the same reason, do not spill water or liquid on the TV.
15. **Damage requiring service** - If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.

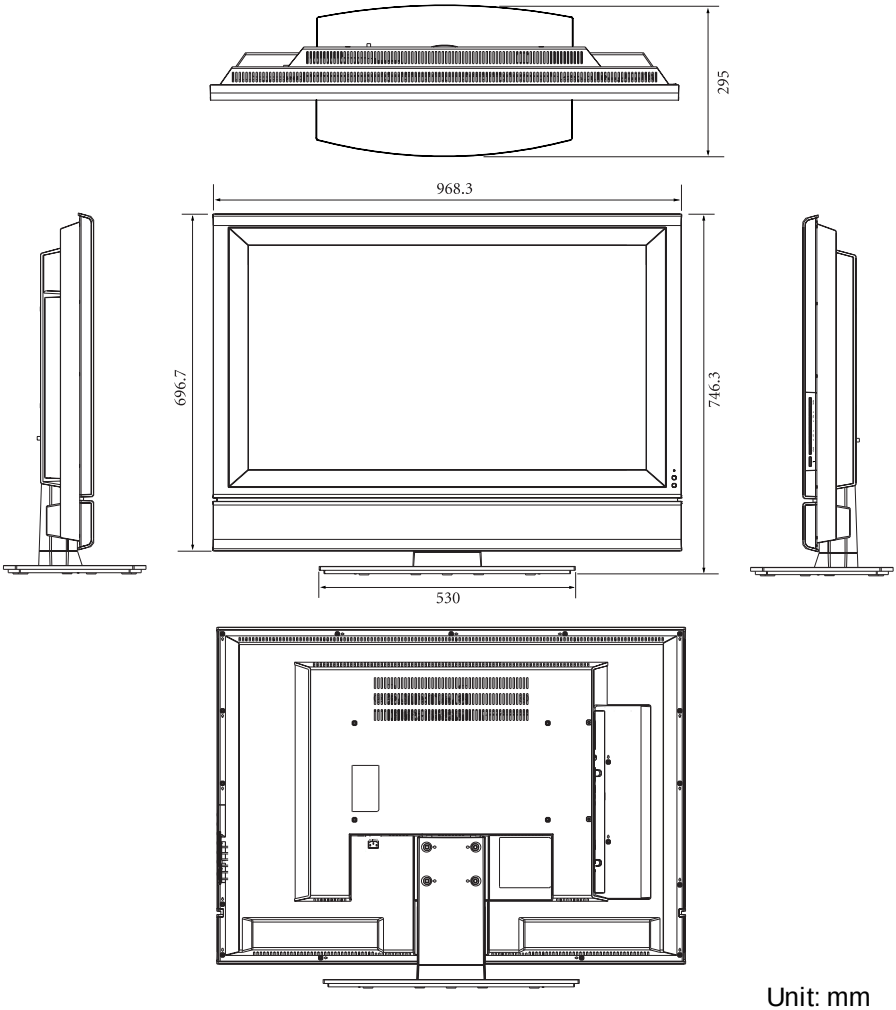
- When the power cord or plug is damaged.
- When a liquid is spilled on the TV or when objects have fallen into the TV.

- When the TV has been exposed to rain or water.
- When the TV does not operate properly as described in the operating instructions.
- If the TV has been dropped or the cabinet has been damaged in any way.
- When the TV displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the TV indicates that the TV needs servicing.

16. **Controls** - Do not touch the controls other than those described in this manual. Improper adjustment of controls can cause damage, which often requires extensive adjustment work by a qualified technician.
17. **Safety checks** - Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the TV is in proper operating condition.
18. **Wall mounting** - When mounting the TV on a wall, be sure to install the TV according to the method recommended by BenQ using only the specified mounting hardware.
19. **Installation of an external antenna** - If an outside antenna is connected to the TV, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
20. For added protection for this TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the TV due to lightning and power-line surges.
21. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can collide with such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

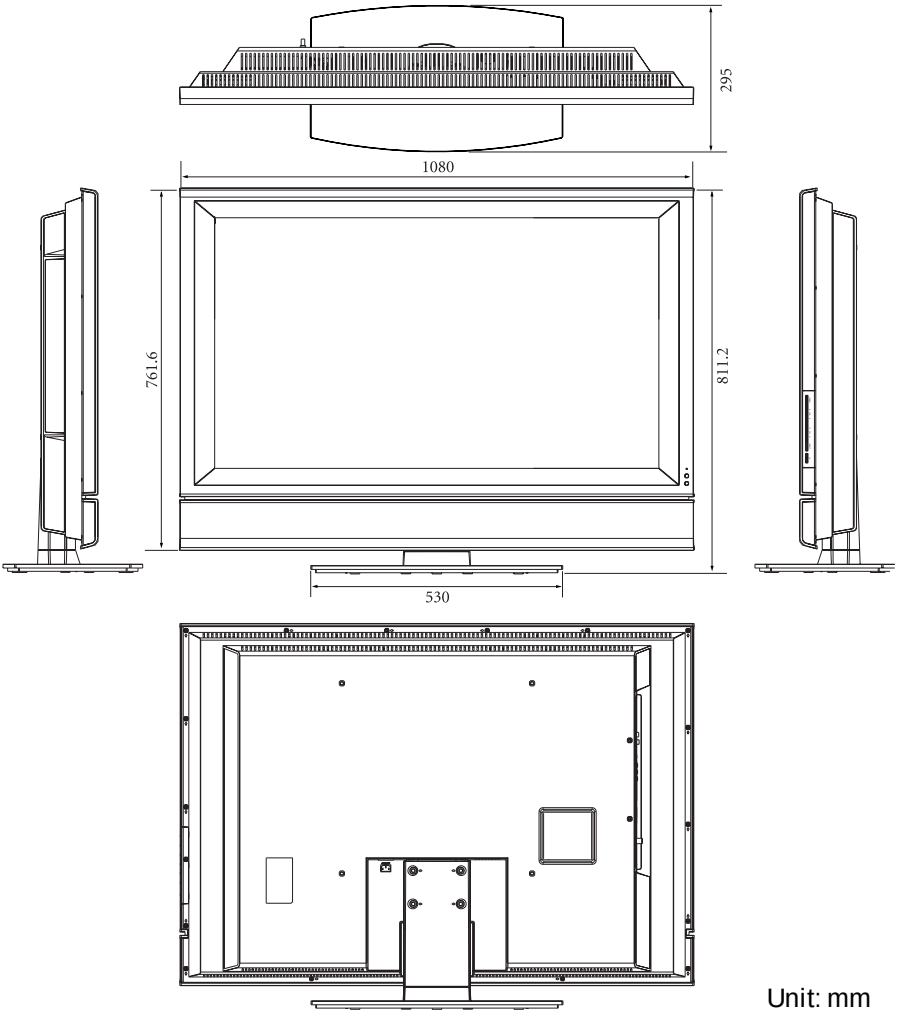
Dimensional drawings

VL3733



Unit: mm

VL4233



Unit: mm

Specifications

Model		VL3733	VL4233
Weight (Net)		25Kg	35Kg
Dimensions (W x H x D)		968.3 x 746.3 x 295 mm	1080 x 811.2 x 295 mm
LCD panel size		37 inches	42 inches
Aspect ratio		16:9	
Native resolution		1366 x 768	
LCD panel brightness (typical)		500 cd/m^2	
LCD panel contrast ratio (typical)		1200:1	
Viewing angle		89º/89º/89º/89º (left/right/up/down)	
Response time		8 ms grey to grey	
Amplifier		10W x 2, 80Hz ~ 20KHz	
Signal inputs	TV	Analog Pan-Euro TV tuner	
	Video	• Composite Video x 2 • SCART (Cenelec) x 2 • S-Video x 2 • Component Video (Y C_B/P_B C_R/P_R) x 1 • Composite Video/S-Video audio x 2 • Component Video audio x 1	
	Graphic	• PC D-Sub x 1 • HDMI/DVI x 1 • PC audio x 1 • DVI audio x 1	
Signal outputs		• Stereo audio x 1 • Headset x 1	
PC horizontal frequency		31.5 ~ 67.5 kHz	
PC vertical frequency		60 ~ 75 Hz	
Power supply		AC 100-240V, 50-60 Hz	
Power consumption		210W	260W
Operating temperature		0°C~ 40°C (at sea level)	
Storage temperature		-20°C ~ 50°C(at sea level)	
TV systems		PAL / SECAM	
Video systems		PAL / SECAM	

Design and specifications are subject to change without notice.

Supported PC (D-Sub/DVI) input signal resolution

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Dot Clock Frequency (MHz)	Note
720 × 400	31.469	70.08	28.322	DOS, VESA
640 × 480	31.469	59.94	25.175	DOS, VESA
640 × 480	35	67	30.24	Mac. (SOG)
640 × 480	37.5	75	31.50	VESA
640 × 480	37.86	72.81	31.50	VESA
800 × 600	35.16	56.25	36	VESA
800 × 600	37.879	60.317	40	VESA
800 × 600	46.88	75	49.50	VESA
800 × 600	48.08	72.19	50	VESA
1024 × 768	48.363	60	65	VESA
1024 × 768	56.5	70	75	VESA
1024 × 768	60	75	78.75	VESA
1280 × 720	44.955	59.939	74.175	VESA
1280 × 1024	63.98	60.02	108	VESA
1360 × 768	47.7	60	85.5	VESA
1920 × 1080	67.5	60	148.5	VESA

Supported Component Video/HDMI input signal resolution

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Dot Clock Frequency (MHz)	Note
720 × 480i	15.735	60	12.27	SDTV 480i
720 × 480p	31.25	60	27	SDTV 480p
720 × 576i	15.625	50	13.5	HDTV 576i
720 × 576p	31.25	50	27	HDTV 576p
1280 × 720p	45	60	74.25	HDTV720p
1280 × 720p	37.5	50	74.25	HDTV720p
1920 × 1080i	28.13/33.75	50/60	148.5	HDTV1080i
1920 × 1080p (HDMI only)	56.25	50	148.5	HDTV1080p
	67.5	60	148.5	HDTV1080p

☞ **• PC (D-Sub/DVI) and Component Video/HDMI resolutions outside of these tables are not recognised and will not be displayed.**
• When you connect the TV to a PC, you should adjust the resolution in the display properties of the computer to closely match the native resolution of the TV (for example, 1360 x 768 pixels). To view the best quality picture when using the PC input, you will then need to instruct the TV to calibrate itself to the PC signal timing. To do so, select 'Auto' in the 'Picture' menu. See "Picture menu" on page 35.

Troubleshooting

There are many external influences and circumstances beyond the control of BenQ which may be causing problems with your TV. Some of the more common and user fixable problems are listed below for your information. Please check the following list before calling your nearest BenQ Customer Service Center, and attempt the following steps to diagnose and fix the problem yourself:

Symptoms	Possible Causes
TV does not turn ON	Ensure the TV power is ON (as shown by the green Power indicator on the front of the TV). If so, check that the remote control is working or not. Press the **Power/standby** button on it. If not: • Check that the power plug is securely inserted into both the **AC-INLET** socket on the TV and the wall outlet, and that the wall outlet is switched on (if switched). • Check that power is available from the power outlet by trying another known working appliance (e.g. desk lamp) from that same power outlet.
There is no picture or sound	• Try a different input source to confirm if the symptom is still present or whether the source is at fault. • Check for mis-connection of cables for that input. • Make sure the antenna cable is properly connected. • Change programs to confirm if the symptom is still present or whether the program station is at fault. • Try a different picture mode to check that picture settings haven't been turned down. • Adjust the volume control to check that isn't turned down, or that the **Mute** button wasn't pressed. • Make sure that the **Speaker Out** option in the **Audio** menu is not set to **Off**. • Check the audio input cables for disconnection.
"Not supported" appears	The PC VGA output signal resolution is set too high. 1920 x 1080 @ 60Hz is the highest acceptable PC timing.
The image appears distorted	• Ensure the TV's aspect ratio is correctly set to suit the image source. • Try a different input source to confirm if the symptom is still present or whether the source is at fault.
Improper screen position or size	• Try selecting a different aspect ratio. • Try a different input source to confirm if the symptom is still present or whether the source is at fault.

Symptoms	Possible Causes
Degraded colours or hue	• Try a different input source to confirm if the symptom is still present or whether the source is at fault. • Check for mis-connection of cables for that input. • Make sure the antenna cable is properly connected. • Change programs to confirm if the symptom is still present or whether the program station is at fault. • Try a different picture mode to check that picture settings haven't been altered. • Check the picture properties in the **Picture** menu. • The source may be set to output NTSC. Alter it to PAL.
The image appears too 'washed out', or the darkest areas of the image appear too bright	• Reduce the brightness level until the black areas of the picture appear as black. • The input source device (e.g. DVD player) brightness level may be set too high. Reduce its brightness level.
The image appears too bright, and there is a loss of definition in the brightest areas of the image	• Reduce the contrast level until the over brightness is gone, and the bright area definition returns. • The input source device (e.g. DVD player) brightness level may be set too high. Reduce its brightness level. • The AV video signal has not been terminated properly somewhere in the external AV equipment. Check the connection and try again.
Remote control does not function properly	• Check for incorrect battery orientation. • Check for dead batteries • Check your distance and angle from the TV. • Check whether remote control is properly being pointed at the TV's remote control sensor window. • Check for any obstacle between the remote control and the remote control sensor window. • Check that the remote control sensor window is not under strong fluorescent lighting. or in direct sunlight. • Check for any devices (PC or personal digital assistant, PDA) nearby that transmit infrared signals which may cause interference to signal transmission between the remote control and the TV. Turn off the infrared function of these devices.
Picture is not clear when using PC input	If **PC** is selected as the input signal source, use the **Auto** function in the **Picture** menu to let the TV adjust the picture settings automatically.

Symptoms	Possible Causes
The picture is not sharp or the picture contains image movement when using the TV tuner input	• The reception may be weak. See next problem solution. • Change programs to confirm if the symptom is still present or whether the program station is at fault. • Make sure the antenna cable is properly connected. • Try redirecting or relocating your antenna to improve the picture. If the antenna is exterior, have a suitable qualified and experienced antenna specialist adjust the antenna.
The picture is doubled or tripled when using the TV tuner input	Your TV antenna signal may be effected by interference. Try redirecting or relocating your antenna to reduce the effects of the interference. If the antenna is exterior, have a suitable qualified and experienced antenna specialist adjust the antenna. Picture ghosting is caused by reflections from buildings, large metal structures and mountains.
The background image, icon or button persists on-screen as a visible faint outline trace no matter what image is currently being displayed.	The screen may be displaying 'LCD Image Persistence'. • Turn off the screen for several days. • Apply an all white screen size screensaver or image for several days.

<Memo>